SYSE 6323 (MECH 6323) Robust Control Systems (3 semester hours) Theory, methodology, and software tools for the analysis and design of model-based control systems with multiple actuators and multiple sensors. Control oriented model parameterizations and modeling errors. Definitions and criteria for robust stability and performance. Optimal synthesis of linear controllers. The loop shaping design method. Methods to simplify the control law. Control law discretization. Mechatronic design examples. Prerequisite: (MECH 6300 or ENGR 6331 or SYSM 6307) or equivalent. (3-0) T (2016-02-05 21:11:28)